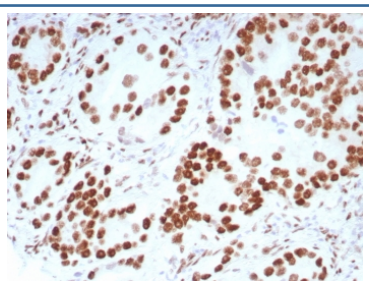
Androgen Receptor Antibody DHTR/8698R / AR Antibody [clone DHTR/8698R] (V5362)

Catalog No.	Formulation	Size
V5362-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5362-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5362SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

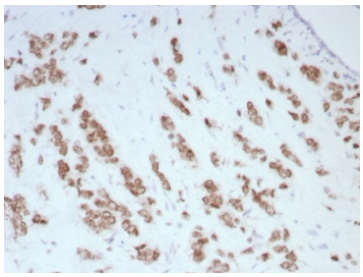
Recombinant RABBIT MONOCLONAL

Bulk quote request

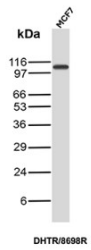
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	DHTR/8698R
Purity	Protein A/G affinity
UniProt	P10275
Localization	Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This Androgen Receptor Antibody DHTR/8698R is available for research use only.



Androgen Receptor Antibody DHTR/8698R immunohistochemistry of human prostate carcinoma. Formalin-fixed, paraffin-embedded human prostate carcinoma tissue stained with the rabbit monoclonal Androgen Receptor Antibody DHTR/8698R shows strong nuclear HRP-DAB brown chromogenic staining in malignant glandular epithelial cells, consistent with androgen receptor expression and the expected nuclear localization of this steroid hormone receptor transcription factor. Surrounding stromal cells show minimal staining, highlighting the predominance of AR-positive tumor epithelial cells within the prostate carcinoma. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling prior to antibody incubation.



Androgen Receptor Antibody DHTR/8698R Immunohistochemistry. IHC staining of FFPE human breast carcinoma tissue with rabbit monoclonal Androgen Receptor antibody (clone DHTR/8698R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Androgen Receptor Antibody DHTR/8698R Detection in MCF7 Human Breast Cancer Cells by WB. Western blot analysis of human MCF7 breast cancer cell lysate using Androgen Receptor Antibody (clone DHTR/8698R) shows a strong, discrete band migrating at approximately 105-110 kDa, with minimal additional reactivity visible in the lane. Although the canonical AR sequence has a calculated molecular weight of approximately 99 kDa, full-length androgen receptor commonly migrates at approximately 110 kDa by SDS-PAGE. The clean band at this expected migration region demonstrates detection of the androgen receptor using this AR Antibody.

Description

Androgen receptor (AR), encoded by the AR gene and also known as nuclear receptor subfamily 3 group C member 4 (NR3C4), is a ligand-activated transcription factor belonging to the steroid hormone receptor family. AR mediates the biological effects of androgens such as testosterone and dihydrotestosterone by regulating androgen-responsive gene transcription. Androgen Receptor Antibody DHTR/8698R recognizes the AR protein and enables investigation of androgen receptor expression and localization in research studies focused on hormone signaling and prostate biology.

Androgen receptor functions primarily as a nuclear transcription factor. Upon androgen binding, AR undergoes conformational activation and translocates from the cytoplasm into the nucleus where it binds androgen response elements in target gene promoters. Detection with Androgen Receptor Antibody DHTR/8698R therefore commonly reveals nuclear localization in androgen-responsive cells, consistent with the receptorÃ¢Â€Â™s transcriptional regulatory function. This nuclear staining pattern is a characteristic feature of AR-positive epithelial cells in androgen-regulated tissues.

In normal physiology, androgen receptor expression is particularly prominent in tissues of the male reproductive system. Strong nuclear AR expression is typically observed in prostate glandular epithelial cells where androgen signaling regulates epithelial differentiation, secretory function, and maintenance of prostate tissue architecture. AR expression may also be detected in additional androgen-responsive cell populations where steroid hormone signaling contributes to tissue homeostasis and cellular regulation.

In cancer research, androgen receptor signaling plays a central role in the development and progression of prostate cancer. AR activity regulates numerous genes involved in tumor growth, survival, and differentiation, and many prostate tumors retain AR expression even during disease progression. Because of this biological significance, detection of androgen receptor protein is widely used to study androgen signaling pathways and tumor cell characteristics in prostate cancer models.

The AR protein contains several functional domains including a large N-terminal transactivation domain, a central DNA-binding domain that recognizes androgen response elements, and a ligand-binding domain responsible for androgen interaction. These structural regions coordinate ligand binding, DNA recognition, and transcriptional activation of androgen-responsive genes. Antibodies targeting AR allow researchers to evaluate receptor expression patterns and cellular localization within tissues and experimental systems.

Androgen Receptor Antibody DHTR/8698R is a rabbit monoclonal antibody designed to detect androgen receptor protein in research applications. Detection of AR with this antibody supports studies investigating androgen signaling pathways,

nuclear receptor biology, prostate tissue differentiation, and hormone-regulated gene expression.

For additional information on androgen receptor biology and complementary antibody validation, visit our Androgen Receptor Antibody CDF-1 / Steroid Hormone Receptor Antibody page.

Application Notes

Optimal dilution of the Androgen Receptor Antibody DHTR/8698R should be determined by the researcher.

Immunogen

A synthetic peptide corresponding to a portion of human Androgen Receptor protein (within amino acids 1-100) was used as the immunogen for the Androgen Receptor Antibody DHTR/8698R.

Storage

Aliquot the Androgen Receptor Antibody DHTR/8698Rand store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

AR antibody, NR3C4 antibody, Nuclear receptor subfamily 3 group C member 4 antibody, Androgen receptor nuclear receptor antibody

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